

PRODUCT DATASHEET F15523_LINNEA-90

LINNEA-90

~90° + 90° wide beam optimized for 1.0 mm metal sheet or profile. Variant made from PC.

SPECIFICATION:

Dimensions	285.0 x 40.0 mm
Height	9.5 mm
Fastening	clips
ROHS compliant	yes 🛈



MATERIALS:

Component	Туре	Material	Colour	Finish
LINNEA-90	Linear lens	PC	clear	

ORDERING INFORMATION:

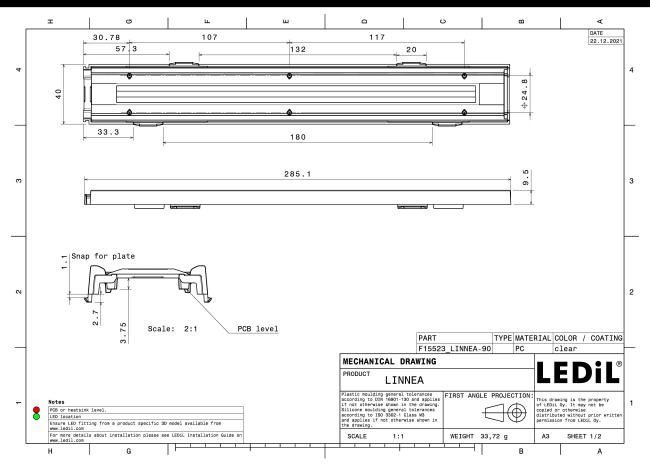
Component

F15523_LINNEA-90

» Box size: 398 x 298 x 265 mm

Qty in box	MOQ	MPQ	Box weight (kg)
162	36	36	7.3

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See also our general installation guide: www.ledil.com/installation_guide



LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CALOSNU405-M7W1 104.0 + 87.0° / 164.0 + 124.0° 82 % 0.4 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	CALOSNU410-M7W1 104.0 + 86.0° / 164.0 + 124.0° 83 % 0.4 cd/lm 1 White nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-E 104.0 + 88.0° / 164.0 + 126.0° 81 % 0.4 cd/lm 1 White nts:	
Helvar LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	L-iC-282-827-865-011A 102.0 + 89.0° / 164.0 + 124.0° 82 % 0.4 cd/lm 1 White nts:	



Helvar LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LP-282-840-009A 60/300 100.0 + 89.0° / 163.0 + 125.0° 82 % 0.4 cd/lm 1 White ents:	
Helvar LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LS-282-840-011A 102.0 + 90.0° / 164.0 + 125.0° 81 % 0.4 cd/lm 1 White ents:	
Helvar LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LX-282-840-023A 102.0 + 89.0° / 164.0 + 125.0° 82 % 0.4 cd/lm 1 White ents:	
High-Performance LED-IT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LinearZ 280-112 Circadian TW 93.0 + 87.0° / 159.0 + 122.0° 84 % 0.4 cd/lm 1 Tunable White	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LinearZ 280-26 101.0 + 89.0° / 164.0 + 124.0° 83 % 0.4 cd/lm 1 White	2°
High-Parformance LED-Te LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LinearZ 280-40 TW 101.0 + 89.0° / 163.0 + 123.0° 83 % 0.4 cd/lm 1 Tunable White	
Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LinLED 280x24mm 1100lm 830 2C 30V LINNEA-GC G1 88.0 + 100.0° / 125.0 + 164.0° 83 % 0.4 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NF2x757D 86.0 + 99.0° / 125.0 + 159.0° 0 % 0.5 cd/lm 1 White	



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LED	NF2x757G	7	75*
FWHM / FWTM	105.0 + 85.0° / 165.0 + 125.0°		\sum
Efficiency	83 %		60.
Peak intensity	0.4 cd/lm		
LEDs/each optic	1		
Light colour	White		45
Required compone	ents:		K I
		30* 400 170 of 194	36*
			90*
LED	NFSW757H		
FWHM / FWTM	100.0 + 90.0° / 163.0 + 125.0°	73	75*
Efficiency	85 %	200	\times
Peak intensity	0.4 cd/lm	9° /	60*
LEDs/each optic	1		
Light colour	White		45.
Required compone			
			\mathbb{N}
			X
		25 ⁷ 0 ⁶ 15 ⁷	
ØNICHI∕		90*	90*
	NFSx757G		90*
		90 ⁴	90° 75°
LED	NFSx757G		80°
LED FWHM / FWTM	NFSx757G 98.0 + 88.0° / 162.0 + 125.0°		66. 22, 20,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 %		907 907
LED FWHM / FWTM Efficiency Peak intensity	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm		907 724 68°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White		995 725 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents:		44
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents:		16 16 16 16 16 16 16 16 16 16 16 16 16 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents:		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0°		25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 %		100 - 100 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm 1 White		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm 1 White		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm 1 White		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NFSx757G 98.0 + 88.0° / 162.0 + 125.0° 81 % 0.4 cd/lm 1 White ents: PL-LIN-IND-Z1 2800 560x24 101.0 + 89.0° / 163.0 + 125.0° 87 % 0.4 cd/lm 1 White		10 10 10 10 10 10 10 10 10 10 10 10 10 1



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OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-LIN-Z5 1100 280x20 101.0 + 89.0° / 164.0 + 125.0° 82 % 0.4 cd/lm 1 White	
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-LIN-Z5 2000 280x20 101.0 + 89.0° / 164.0 + 125.0° 82 % 0.4 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (2 chip) 99.0 + 89.0° / 163.0 + 125.0° 83 % 0.4 cd/lm 1 White nts:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (Single chip) 98.0 + 89.0° / 163.0 + 125.0° 85 % 0.4 cd/lm 1 White nts:	



PHILIF	DS	90°
LED FWHM / FWTM	Fortimo LED Strip 1ft 1100lm FC HV4 & LV4 100.0 + 89.0° / 163.0 + 124.0°	72 72
Efficiency Peak intensity	82 % 0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	or and the second se
Required compone		
		34* 400 34
PHILIF	DS	10 ⁻ ¹⁰ 13 ⁻
LED	Fortimo LED Strip 1ft 1100lm FC HV5 & LV5	
FWHM / FWTM	99.0 + 85.0° / 163.0 + 123.0°	
Efficiency	86 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at
Required compone	nts:	
		40
PHILIF	DS	8 ³⁴ 80
LED	Fortimo LED Strip 1ft 650lm FC HV4 & LV4	
FWHM / FWTM	102.0 + 90.0° / 164.0 + 124.0°	
Efficiency	82 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	er de la companya de
Required compone	ints:	
		30" 400 30"
PHILIF	PS	91 ⁴ 957
LED	Fortimo LED Strip 1ft 650Im FC HV5 & LV5	
FWHM / FWTM	101.0 + 87.0° / 163.0 + 123.0°	27
Efficiency	86 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	gr de la
Required compone	nts:	
		440



S ΛΜS		90*	
LED	LM28xB Series		
FWHM / FWTM	105.0 + 86.0° / 165.0 + 124.0°	77	
Efficiency	84 %		
Peak intensity	0.3 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
รлмรเ			
		97°	
	LM561B Plus	77	
FWHM / FWTM	88.0 + 100.0° / 125.0 + 164.0°		
Efficiency Book intensity	83 % 0.4 cd/lm		
Peak intensity			
LEDs/each optic	1 White		$\left \right>$
Light colour			
Required compone	nts:		
		36"	
<u> </u> S ΛMSI	JNG	97	
LED	LT-H282C		
FWHM / FWTM	103.0 + 87.0° / 164.0 + 125.0°	R ¹	
Efficiency	84 %		
	04 /0		
Peak intensity	0.4 cd/lm 1		
Peak intensity LEDs/each optic	0.4 cd/lm		
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	- 30- T	
Peak intensity LEDs/each optic	0.4 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	200- 200- 200-	
Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White	er 97 300	
Peak intensity LEDs/each optic Light colour Required compone	0.4 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone	0.4 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone	0.4 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone	0.4 cd/lm 1 White nts:		
Peak intensity LEDs/each optic Light colour Required compone	0.4 cd/lm 1 White nts: UNG LT-H562C		
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	0.4 cd/lm 1 White nts: UNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0°		
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	0.4 cd/lm 1 White nts: UNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 %		
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.4 cd/lm 1 White nts: UNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm		
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White nts: JNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.4 cd/lm 1 White nts: JNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White nts: JNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm 1 White		
Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.4 cd/lm 1 White nts: JNG LT-H562C 103.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm 1 White		

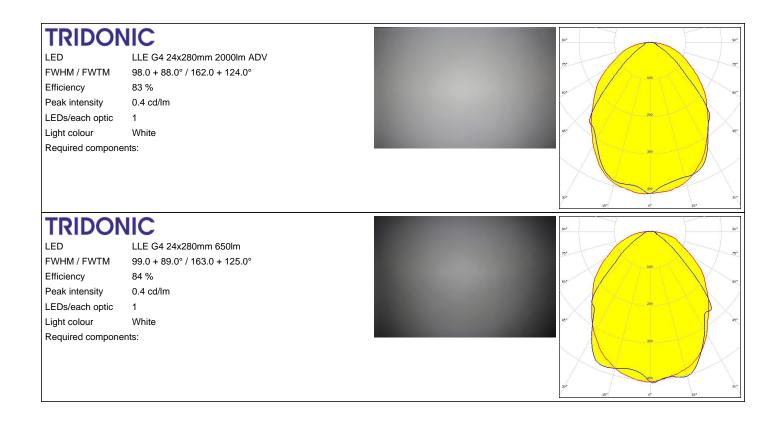


SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LT-Q282B 101.0 + 87.0° / 164.0 + 125.0° 84 % 0.4 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LT-S282H 104.0 + 86.0° / 165.0 + 125.0° 85 % 0.4 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LT-S562H 104.0 + 86.0° / 165.0 + 125.0° 85 % 0.4 cd/lm 1 White	
SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LT-V282E 103.0 + 86.0° / 164.0 + 125.0° 85 % 0.4 cd/lm 1 White	



SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LT-V562E 103.0 + 86.0° / 164.0 + 125.0° 85 % 0.4 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SEOUL 5630D 93.0° / 141.0° 82 % 0.4 cd/lm 1 White ents:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	SEOUL DC 3030 99.0 + 88.0° / 163.0 + 125.0° 85 % 0.4 cd/lm 1 White ents:	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LLE G4 24x280mm 1250lm 100.0 + 89.0° / 163.0 + 125.0° 83 % 0.4 cd/lm 1 White	







bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 2835 100.0 + 86.0° / 165.0 + 120.0° 77 % 0.4 cd/lm 1 White	54 ⁴ 55
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G3 105.0 + 89.0° / 161.0 + 124.0° 81 % 0.4 cd/lm 1 White	5° - 200 - 0° - 200 - 0° - 200 - 0° - 200 - 0° - 0°
ED FWHM / FWTM Efficiency Peak intensity	LUXEON 2835 Line 96.0 + 84.0° / 161.0 + 120.0° 80 % 0.4 cd/lm	99* 99* 75' 200 00*
LEDs/each optic Light colour Required components:	2 White	200 200 300 400 400 300 300 300 400 300 3
		15 07 15
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) 93.0 + 84.0° / 162.0 + 124.0° 82 % 0.4 cd/lm 1 White	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
		300 300 300 300 300 300 300 300 300



OSRAM Opto Semiconductors		90° 90°
LED	Duris E 2835	
FWHM / FWTM	83.0 + 91.0° / 122.0 + 159.0°	73* 75*
Efficiency	82 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	a3 ⁴ a3 ⁴
Required components:		
		360 360
		159 00 159
SAMSUN	IG	90* 90*
LED	LM301B	
FWHM / FWTM	98.0 + 92.0° / 152.0 + 126.0°	<u>1</u> 2. <u>1</u> 2.
Efficiency	86 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	67° 67°
Required components:		
		30° 33°
		15° 0° 35°
SEOUL		
SEQUE SEMICONDUCTOR		90° 90°
SEOUL SEMICONDUCTOR	SEOUL DC 3030C	90° 91°
LED	SEOUL DC 3030C 91.0 + 82.0° / 160.0 + 120.0°	97
LED FWHM / FWTM	SEOUL DC 3030C 91.0 + 82.0° / 160.0 + 120.0° 82 %	100
LED FWHM / FWTM Efficiency	91.0 + 82.0° / 160.0 + 120.0°	59° 59°
LED FWHM / FWTM Efficiency Peak intensity	91.0 + 82.0° / 160.0 + 120.0° 82 %	97 997 755 75 66 ²⁴ 86 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm	500 - 500 -
LED FWHM / FWTM Efficiency Peak intensity	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	97 97 75 200 57 200 57 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	97 97 97 97 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	97 97 79 100 00 ⁵ 220 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	5° 5° 5° 5° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconouctor LED FWHM / FWTM Efficiency	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency Peak intensity	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 % 0.4 cd/lm 2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 % 0.4 cd/lm 2	304 300 304 300 300 300 300 300 300 300 300 300 300 300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 % 0.4 cd/lm 2	304 300 304 300 300 300 300 300 300 300 300 300 300 300 300 300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	91.0 + 82.0° / 160.0 + 120.0° 82 % 0.4 cd/lm 1 White SEOUL DC 3528 95.0 + 78.0° / 169.0 + 116.0° 78 % 0.4 cd/lm 2	



SEOUL		90* 90*
SEOUL SEMICONDUCTOR		
ED FWHM / FWTM	SEOUL DC 3528	75'
	102.0 + 84.0° / 168.0 + 117.0°	100
Efficiency	77 %	60° 60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	d3" d3"
Required components:		
		36° 36° 36°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 3528	75*
FWHM / FWTM	102.0 + 86.0° / 169.0 + 118.0°	100
Efficiency	77 %	60°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	gr er
Required components:		X
		300
		30°
		15° 0° 15°
SEOUL		90° 90°
SEOUL SEMICONDUCTOR		591 591
seoul semiconductor	SEOUL DC 3528	39 ⁴ 39 ⁷
seoul semiconductor LED FWHM / FWTM	104.0 + 86.0° / 169.0 + 118.0°	59° 597 75° 510
seoul semiconductor LED FWHM / FWTM Efficiency	104.0 + 86.0° / 169.0 + 118.0° 77 %	99° 99° 35° 59° 400 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm	99°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	94 97 35 59 96
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm	51 51 51 51 51 51 51 51 51 51
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	94 92 73 64 20 76 20 70 70 70
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	97 97 97 97 98 97 98 97 98 97 98 97 98 97 98 97 98 97 98 97 98 97 98 97 98 97 98 98 98 98 98 98 98 98 98 98 98 98 98
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	5° 5° 5° 50 50 50
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1	
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White	54 54 54 54 56 56 56 56 56 56 56 56 57 57 57 57 57 57 57 57 57 57 57 57 57
SECOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SECOUL SEMICONDUCTOR LED	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0°	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm 2	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm 2	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm 2	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm 2	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	104.0 + 86.0° / 169.0 + 118.0° 77 % 0.4 cd/lm 1 White SEOUL DC 3528 99.0 + 84.0° / 167.0 + 117.0° 78 % 0.4 cd/lm 2	



		90* 9
LED	SEOUL DC 3528	
FWHM / FWTM	99.0 + 84.0° / 167.0 + 116.0°	75
Efficiency	78 %	
Peak intensity	0.4 cd/lm	694
LEDs/each optic	2	
Light colour	White	45+
Required components:		
required components.		
		40
		36° 36° 36°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90'
LED	SEOUL DC 3528	75'
FWHM / FWTM	100.0 + 80.0° / 170.0 + 118.0°	300
Efficiency	78 %	60° / / 00°
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required components:		
		\mathbb{N}
		36"
SEOUL		15 ⁵ 0 ⁶ 15 ⁵
SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 3528	73*
FWHM / FWTM	99.0 + 88.0° / 166.0 + 118.0°	
Efficiency	77 %	605
Peak intensity	0.4 cd/lm	
LEDs/each optic	2	200
Light colour	White	934 es
Required components:		
		30° 400 30
		15° 0° 15°



PRODUCT DATASHEET F15523_LINNEA-90

GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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LEDiL Oy

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